

**Notice of Allowability**

Application No.

09/521,240

Examiner

Annan Q. Shang

Applicant(s)

SUEMATSU ET AL.

Art Unit

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendments filed 10/05/05.
2. ☒ The allowed claim(s) is/are 1-3, 5-37, 40-51 and 52 and renumbered as 1-6, 8-36, 38-49, 37, 40 and 7 respectively.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
CHRIS KELLEY

SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 8200

## DETAILED ACTION

### *Allowable Subject Matter*

1. Claims 1-3, 5-37, 40-51 and 52 allowed.
2. The following is an examiner's statement of reasons for allowance: with respect to independent claims 1, 8, 46, 47 and 48, the prior art of records **Tanishima (5,953,045)** teaches a millimeter wave transmitter and receiver for transmit/receiving broadcasting wave signals and converting it to millimeter wave signals which is transmitted/received indoors. **Macdonald et al (5,835,128)** disclose a wireless television signal distribution system for distributing television signals received from a satellite or other source to a plurality of individual receiving units within one or more multiple dwelling units. **Crosby (5,694,138)** discloses antenna heater power through coax. **Watanabe (5,557,290)** discloses coupling apparatus between coaxial cables and antenna system using the coupling apparatus. However, neither **Tanishima**, **Macdonald**, **Watanabe** nor **Crosby** and any of the cited references teach, or suggest alone or in combination the feature of millimeter wave transmitter/receiver for performing millimeter wave radio transmission indoors and a connection unit connectable receiving broadcasting and a power supply circuit supplying driving power to a millimeter wave transmitter through the connection unit, as recited in combination with other features with respect to independent claims 1, 8, 47 and 48.

With respect to independent claims 12, 37, 43 and 44, neither **Tanishima**, **Macdonald**, **Watanabe** nor **Crosby** and any of the cited references teach, or suggest alone or in combination the feature of a millimeter wave receiver and a connection unit

Art Unit: 2617

connectable with an antenna having a function of receiving broadcasting and power receptor circuit receiving driving power of the millimeter wave receiver through the connection unit.

With respect to independent claim 40, neither **Tanishima, Macdonald, Watanabe** nor **Crosby** and any of the cited references teach, or suggest alone or in combination the feature of “an inverse frequency arranger receiving output signals of the broadcasting wave demodulation circuit and changing the frequency arrangement of the output signals of the broadcasting wave demodulating circuit and a transmission circuit transmission a control signal for controlling the millimeter wave transmitter” as recited in combination with other features of independent claim 40.

With respect to independent claim 41, neither **Tanishima, Macdonald, Watanabe** nor **Crosby** and any of the cited references teach, or suggest alone or in combination the feature of “a frequency arranging circuit receiving the broadcasting signals output from the broadcasting wave input circuit, and changing the frequency arrangement of the broadcasting signals by adjusting the frequency of at least one of the plurality of broadcast signals relative to at least one other of the plurality of broadcasts signals,” as recited in combination with other features of independent claim 41.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

***Conclusion***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Arsenault et al (5,861,855) disclose method and apparatus for de-icing a satellite dish antenna.

Langston (6,006,069) discloses point-to-multipoint communications system.

Leyten et al (5,625,883) disclose system for wireless information transmission between two different rooms.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Annan Q. Shang** whose telephone number is **571-272-7355**. The examiner can normally be reached on **700am-400pm**.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Christopher S. Kelley** can be reached on **571-272-7331**. The fax phone number for the organization where this application or proceeding is assigned is **571-273-8300.00-25**

Art Unit: 2617

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the **Electronic Business Center (EBC)** at 866-217-9197 (toll-free).



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